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PATENT
P56637

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

GOO-MAN PARK, *et al.*

Serial No.: 10/052,552

Examiner: VO, TUNG T.

Filed: 23 January 2002

Art Unit: 2621

For: MULTI-CHANNEL IMAGE ENCODING APPARATUS AND ENCODING
METHOD THEREOF

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references. Under 37 C.F.R. §1.98(a)(2) however, copies of U.S. patent reference(s) are not provided.

U.S. PATENT REFERENCE:

- U.S. Patent No. 6,011,901 to Kirsten, entitled *COMPRESSED DIGITAL VIDEO RECORD AND PLAYBACK SYSTEM*, issued on 4 January 2000.

FOREIGN PATENT REFERENCE:

- Japanese Patent Publication No. 3-265392 to Tanaka, *et al.*, entitled *MOVING PICTURE CODING SYSTEM*, published on 26 November 1991 (with English abstract).
- Japanese Patent Publication No. 7-67098 to Maenozono, entitled *MOVING PICTURE MONITORING DEVICE*, published on 10 March 1995 (with English

abstract).

- Japanese Patent Publication No. 2-87790 to Minae, entitled *REMOTE MONITOR SYSTEM*, published on 28 March 1990 (with English abstract).

OTHER DOCUMENTS:

- European Search Report corresponding to European Patent Application No. 02253873.0, issued on 22 February 2007.

DISCUSSION

According to the European Search Report issued on 22 February 2007, corresponding to European Patent Application No. 02253873.0, **Kirsten, US'901** discloses that a record and playback system for video images, especially suited for multi-camera Industrial surveillance. Techniques for acquiring multiple asynchronous camera inputs, compressing video images, and storing digital image data are described. Selective resolution recording improves object discernability without large increase in data storage. A recording system with automatic data archive that eliminates the need for regular operator attention is disclosed.

Tanaka, et al., JP'392 relates that plural memories 2-1 to 2-3 storing plural scenes are provided to both a transmission side and a reception side, and a same referenced picture is inputted in advance respectively. Then the transmission side picture discrimination section 14 judges to which scene stored in the frame memories 2-1 to 2-3 an inputted moving picture signal M1 is similar, uses a frame memory giving the similar scene for coding and informs a frame memory section signal S representing which frame memory is selected to the reception side via a frame memory section signal line 15. Thus, when plural scenes are sent alternately, the increase in the coding information quantity when the scene is changed is suppressed.

Maenozono, JP'098 relates that the pictures from plural cameras 11 are digitized by an A/D converter 12, and read as patterns constituted of frame memories 1-4 according to a sampling clock

outputted from a video switching control part 18 at certain time intervals. At this time, the picture concerned being the output of the converter 12 and the previous picture being the output of a memory 13 are inputted to a subtracter 14, an inter-frame difference is calculated, and fetched again in the memory 13 as the picture concerned. The obtained inter-frame difference is successively selected by a video switcher 17, and applied to a compression unit 15. The unit 15 successively compresses the inter-frame difference from the switcher 17, adds a video number and code amounts to the header part, and transmits it to a transmission control part 16, and it is transmitted to a transmission line.

Minae, JP'790 relates that each output picture signal from plural ITV cameras 1-1" is stored in frame memories 3-3" as picture information by one frame sequentially. It is subject to time division multiplex by a multiplexer circuit 11 and sent as an optical signal through an optical fiber 20 from an optical transmitter 12 and received by an optical receiver 13. The signal is demultiplexed for each channel by a multiplexer/demultiplexer circuit 14, stored in frame memories 4-4" and displayed on monitors 6-6". The frequency of multiplexing from an operation console 7 is varied in response to the ratio of the change in the pattern in the case of multiplexing the content of the frame memory sequentially in this case. Thus, monitoring by using lots of monitors is attained without a sense of unnaturality due to the picture change.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three (3) months prior to the filing of the statement.

No fee is incurred by this statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "R. E. Bushnell", is written over a horizontal line.

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INFORMATION DISCLOSURE STATEMENT

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APPLICANT GOO-MAN PARK, *et al.*

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GROUP 2621

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,011,901	01/2000	Kirsten			

FOREIGN PATENT DOCUMENTS

TRANSLATION

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	3-265392	11/1991	JAPAN			Abstract	
	7-67098	03/1995	JAPAN			Abstract	
	2-87790	03/1990	JAPAN			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	European Search Report corresponding to European Patent Application No. 02253873.0, issued on 22 February 2007.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.